

Speakers

Plenary Speaker

Wayne S. Balta

Director, Corporate Environmental Affairs
IBM Corporation

Wayne S. Balta is the Director of Corporate Environmental Affairs at IBM Corporation. Mr. Balta oversees IBM's global environmental, energy and chemical management strategy, programs and performance, as well as related legislative and regulatory issues. He also has responsibility for the company's toxicology function.

He joined IBM in 1984 as project manager for design and construction in the real estate and construction division. In 1989, he became assistant to the corporate vice president in charge of real estate. He entered the environmental arena in 1990, becoming responsible for IBM's corporate environmental plans and strategy. In 1991, he became manager of corporate environmental issue management. He assumed his present position in 1992.

Mr. Balta serves on the Board of Directors of the Environmental Law Institute and is a member of its Executive Committee. He is a member and past Chairman of The Conference Board's Chief Environment, Health & Safety Officers Council, and he is Vice-Chairman of the World Environment Center's International Environment Forum. He is also a member of the President's Advisory Board for Civil Engineering at Carnegie Mellon University.

Mr. Balta received a Bachelor of Science Degree in civil engineering with University Honors from Carnegie Mellon University in 1982 and a Master of Science Degree in civil engineering from the Massachusetts Institute of Technology, where he was a Tau Beta Pi Fellow, in 1984. He is a member of the Tau Beta Pi national engineering honor society, the Chi Epsilon national civil engineering honor society, and the Sigma Xi scientific research society.

Keynote Address

Dr. Jonathan G. Koomey

Staff Scientist, Environmental Energy Technologies Division
Lawrence Berkeley National Laboratory

Jonathan Koomey is a Staff Scientist at the Lawrence Berkeley National Laboratory. He leads the End-Use Forecasting group, which analyzes markets for efficient products and technologies for improving the energy and environmental aspects of those products. The group develops

recommendations for policymakers at the U.S. Environmental Protection Agency and the U.S. Department of Energy on ways to promote energy efficiency and prevent pollution.

Dr. Koomey holds M.S. and PhD degrees from the Energy and Resources Group at the University of California at Berkeley, and a B.A. in History of Science from Harvard University. He is the author or coauthor of seven books and more than one hundred articles on energy conservation technology, energy economics, energy policy, environmental externalities, and global climate change. Dr. Koomey serves on the Editorial Board of the *journal Contemporary Economic Policy*, and has appeared on *Nova/Frontline*, *CNBC*, and *KQED* radio. He is also a Research Affiliate of the Energy and Resources Group at the University of California, Berkeley.

In 1993, his report, titled *Cost-Effectiveness of Fuel Economy Improvements in 1992 Honda Civic Hatchbacks* won the Fred Burgraff Award for Excellence in Transportation Research from the National Research Council's Transportation Research Board.

Luncheon Address

Robert C. Pfahl, Jr., Ph.D.

Director of International and Environmental Research and Development
Motorola Advanced Technology Center

Dr. Pfahl is Director of International and Environmental Research and Development at Motorola's Corporate Manufacturing Research Center. He leads Motorola's Environmental Technology R&D. He is also responsible for globalizing Motorola's Advanced Technology Center including the establishment of research centers in China, Germany, and Brazil.

Dr. Pfahl led the U.S. Electronics industry in the preparation of the 1994 and 1996 National Electronic Manufacturing Initiative Roadmaps. Dr. Pfahl chairs the National Roadmap Coordinating Committee, which coordinates the U.S. electronic roadmapping activities with U.S. government activities in Electronics R & D.

In recognition of his efforts to eliminate the use of CFCs in the electronics industry, Dr. Pfahl received the 1991 United States EPA Stratospheric Ozone Protection Award for "Executive Leadership and Industry Organizing." He chaired the American Electronics Association's CFC Task Force.

Dr. Pfahl is a member of the National Materials Advisory Board of the National Research Council (USA). Dr. Pfahl is a member of the editorial board of the *Journal of Industrial Ecology*. Dr. Pfahl is a member of the Steering Committee of the International Society of Industrial Ecology. He is also a senior member of IEEE and a member of IMAPS.

Dr. Pfahl holds nine U.S. patents in electronics manufacturing technology and is the inventor of the Vapor Phase Soldering process. Dr. Pfahl received his B.M.E., M.S., and Ph.D. degrees from Cornell University where he majored in heat transfer and fluid mechanics.